

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1488.115000P/EKS/HCCAPPLICATION NO.
10791,905FIRST NAMED INVENTOR
Li *et al.*FILING DATE
March 4, 2004ART UNIT
1647

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
9	AA1	5,314,992	05/24/1994	Guyre <i>et al.</i>			11/25/1991
	AB1	5,440,021	08/08/1995	Chunatharapai <i>et al.</i>			02/25/1994
	AC1	5,652,133	07/29/1997	Murphy			01/28/1993
	AD1	5,707,815	01/13/1998	Charo <i>et al.</i>			5/25/1995
	AE1	5,776,729	07/07/1998	Soppet <i>et al.</i>			06/05/1995
	AF1	5,798,206	08/25/1998	Neurath <i>et al.</i>			01/10/1997
	AG1	5,817,310	10/06/1998	Ramakrishnan <i>et al.</i>			06/10/1994
	AH1	5,912,176	06/15/1999	Wang			06/02/1997
	AI1	5,919,776	07/06/1999	Hagmann <i>et al.</i>			12/18/1997
	AJ1	5,928,881	07/27/1999	Barnette <i>et al.</i>			07/11/1997
	AK1	5,939,320	08/17/1999	Littman <i>et al.</i>			06/19/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
9	AL1	WO 92/01810	02/06/1992	WIPO			Yes No
	AM1	CA 2,146,328	05/26/1994	Canada			Yes No
	AN1	CA 2,128,208	06/09/1994	Canada			Yes No
	AO1	WO 94/11504	5/26/1994	WIPO			Yes No
	AP1	WO 95/19436	07/20/1995	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

9	AR	1	Alkhatib, G. <i>et al.</i> , "CC CKR5: A RANTES, MIP-1 α , MIP-1 β Receptor as a Fusion Cofactor for Macrophage -Tropic HIV-1," <i>Science</i> 272:1955-1958, American Association for the Advancement of Science (June 1996)				
U	AS	1	Balter, M., "Elusive HIV-Suppressor Factors Found," <i>Science</i> 270:1560-1561, American Association for the Advancement of Science (December 1995)				
U	AT	1	Balter, M., "A Second Coreceptor for HIV In Early Stages of Infection," <i>Science</i> 272:1740, American Association for the Advancement of Science (June 1996)				

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	FIRST NAMED INVENTOR Li <i>et al.</i>	
	FILING DATE March 4, 2004	ART UNIT 1647

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	5,939,538	08/17/1999	Leavitt <i>et al.</i>			12/19/1996
	AB2	5,961,976	10/05/1999	Wang			02/28/1997
	AC2	5,962,462	10/05/1999	Mills <i>et al.</i>			12/12/1997
	AD2	5,994,515	11/30/1999	Hoxie			06/25/1997
	AE2	6,013,644	01/11/2000	Mills <i>et al.</i>			12/12/1997
	AF2	6,025,154	02/15/2000	Li <i>et al.</i>			06/06/1995
	AG2	6,057,102	05/02/2000	Landau <i>et al.</i>			08/08/1997
	AH2	6,132,987	10/17/2000	Charo <i>et al.</i>			05/25/1995
	AI2	6,153,431	11/28/2000	Beretta <i>et al.</i>			05/28/1998
	AJ2	6,258,527	07/10/2001	Littman <i>et al.</i>			05/21/1997
	AK2	6,265,184 B1	07/24/2001	Gray <i>et al.</i>			12/20/1995

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	EP 0 671 391	09/13/1995	Europe			Yes X No
	AM2	WO 96/22371	07/25/1996	WIPO			Yes No
	AN2	WO 96/23068	08/01/1996	WIPO			Yes No
	AO2	WO 96/38559	12/05/1996	WIPO			Yes No
	AP2	WO 96/39437	12/12/1996	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Bendig, M.M., "Humanization of Rodent Monoclonal Antibodies by CDR Grafting," <i>Methods</i> 8:83-93, Academic Press, Inc. (October 1995)
	AS	2	Bowie, J.U., <i>et al.</i> "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990)
	AT	2	Burbach, J.P.H., and Meijer, O.C., "The structure of neuropeptide receptors," <i>Eur. J. Pharmacol.</i> 227:1-18, Elsevier Science Publishers B.V. (1992)

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	AA3	6,268,477 B1	07/31/2001	Gray <i>et al.</i>			06/07/1996
	AB3	6,287,805	09/11/2001	Graham <i>et al.</i>			03/20/1998
	AC3	2002/0048786 A1	04/25/2002	Rosen <i>et al.</i>			02/09/2001
	AD3	2002/0076745 A1	06/20/2002	Li <i>et al.</i>			11/18/1998
	AE3	2002/0061834 A1	05/23/2002	Rosen <i>et al.</i>			02/09/2001
	AF3	2002/0099176 A1	07/25/2002	Li <i>et al.</i>			06/25/1999
	AG3	6,511,826	01/28/2003	Li <i>et al.</i>			02/11/2000
	AH3	2003/0023044 A1	01/30/2003	Li <i>et al.</i>			09/03/2002
	AI3	2003/0100058 A1	03/29/2003	Roschke <i>et al.</i>			02/08/2002
	AJ3	2003/0166024 A1	09/04/2003	Rosen <i>et al.</i>			05/01/2002
	AK3	6,743,594 B1	06/01/2004	Li <i>et al.</i>			02/11/2000

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	AL3	WO 97/00960	01/09/1997	WIPO			Yes No
	AM3	WO 97/19696	06/05/1997	WIPO			Yes No
	AN3	WO 97/21812	06/19/1997	WIPO			Yes No
	AO3	WO 97/22698	06/26/1997	WIPO			Yes No
	AP3	WO 97/25340	07/17/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	Brühl, H. <i>et al.</i> , "Depletion of CCR5-Expressing Cells with Bispecific Antibodies and Chemokine Toxins: A New Strategy in the Treatment of Chronic Inflammatory Diseases and HIV," <i>J. Immunol.</i> 166:2420-2426, The American Association of Immunologists (February 2001)
	AS	3	Charo, I.F., <i>et al.</i> , "Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails," <i>Proc. Natl. Acad. Sci. USA</i> 91:2752-2756, National Academy of Science (March 1994)
	AT	3	Choe, H. <i>et al.</i> , "The β -Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates," <i>Cell</i> 85:1135-1148, Cell Press (June 1996)

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	AA4	6,759,519 B2	07/06/2004	Li <i>et al.</i>			06/25/1999
	AB4	6,800,729 B2	10/05/2004	Li <i>et al.</i>			11/18/1998
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	AL4	WO 97/28258	08/07/1997	WIPO			Yes No
	AM4	EP 0 612 723	08/27/1997	Europe			Yes X No
	AN4	WO 97/32019	09/04/1997	WIPO			Yes No
	AO4	WO 97/35881	10/02/1997	WIPO			Yes No
	AP4	WO 97/37005	10/09/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	4	Cocchi, F. <i>et al.</i> , "Identification of RANTES, MIP-1 α , and MIP-1 β as the Major HIV-Suppressive Factors Produced by CD8+ T Cells," <i>Science</i> 270:1811-1815, American Association for the Advancement of Science (December 1995)
	AS	4	Cohen, J., "Likely HIV Cofactor Found," <i>Science</i> 272:809-810, American Association for the Advancement of Science (May 1996)
	AT	4	Combadiere, C. <i>et al.</i> , "Cloning and functional expression of a human eosinophil CC chemokine receptor," <i>J. Biol. Chem.</i> 270:16491-16494, American Society for Biochemistry and Molecular Biology (July 1995)

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	AL5	WO 97/41230	11/06/1997	WIPO			Yes X No
	AM5	WO 97/41225	11/06/1997	WIPO			Yes No
	AN5	WO 97/44055	11/27/1997	WIPO			Yes No
	AO5	WO 97/45543	12/04/1997	WIPO			Yes No
	AP5	WO 97/46697	12/11/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	5	Combadiere, C. <i>et al.</i> , "Monocyte Chemoattractant Protein-3 is a Functional Ligand for CC Chemokine Receptors 1 and 2," <i>J. Biol. Chem.</i> 270:29671-29675, American Society for Biochemistry and Molecular Biology (December 1995)
	AS	5	Combadiere, C. <i>et al.</i> , "Additions and Corrections to: Cloning and functional expression of a human eosinophil CC chemokine receptor," <i>J. Biol. Chem.</i> 270:30235, The American Society for Biochemistry and Molecular Biology (December 1995)
	AT	5	Combadiere, C. <i>et al.</i> , "Cloning and functional expression of CC CKR5, a human monocyte CC chemokine receptor selective for MIP-1 α , MIP-1 β , and RANTES," <i>J. Leukocyte Biol.</i> 60:147-152, The Society for Leukocyte Biology (July 1996)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6	WO 97/47318	12/18/1997	WIPO			Yes No
	AM6	WO 97/47319	12/18/1997	WIPO			Yes No
	AN6	WO 97/49424	12/31/1997	WIPO			Yes No
	AO6	WO 98/00535	01/08/1998	WIPO			Yes No
	AP6	WO 98/05798	02/12/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	Cunningham, M.W., <i>et al.</i> , "Cytotoxic and Viral Neutralizing Antibodies Crossreact With Streptococcal M Protein, Enteroviruses, and Human Cardiac Myosin," <i>Proc. Natl. Acad. Sci. USA</i> 89:1320-1324, National Academy of Sciences (1992)
	AS	6	Deng, H., <i>et al.</i> , "Identification of a major co-receptor for primary isolates of HIV-1," <i>Nature</i> 381:661-666, Macmillan Publishing Group (June 1996)
	AT	6	Dimitrov, D.S., "Fusin - a place for HIV-1 and T4 cells to meet," <i>Nature Med.</i> 2:640-641, Nature Publishing Group (June 1996)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL7	WO 98/14480	04/09/1998	WIPO			Yes No
	AM7	WO 98/15569	04/16/1998	WIPO			Yes No
	AN7	WO 98/17308	04/30/1998	WIPO			Yes No
	AO7	WO 98/18826	05/07/1998	WIPO			Yes No
	AP7	EP 0 834 564	05/13/1998	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	Z	Doranz, B.J., <i>et al.</i> , "A Dual-Tropic Primary HIV-1 Isolate That Uses Fusin and the β -Chemokine Receptors CKR-5, CKR-3, and CKR-2b as Fusion Cofactors," <i>Cell</i> 85:1149-1158, Cell Press (June 1996)
	AS	Z	Dragic, T., <i>et al.</i> , "HIV-1 entry into CD4+ cells is mediated by the chemokine receptor CC-CKR-5," <i>Nature</i> 381:667-673, Macmillan Publishing Group (June 1996)
	AT	Z	Eva, C., <i>et al.</i> , "Molecular cloning of a novel G protein-coupled receptor that may belong to the neuropeptide receptor family," <i>FEBS Letters</i> 271:81-84, Elsevier Science B.V. (1990)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL8	WO 98/20166	05/14/1998	WIPO			Yes No
	AM8	WO 98/25604	06/18/1998	WIPO			Yes No
	AN8	WO 98/25605	06/18/1998	WIPO			Yes No
	AO8	WO 98/25617	06/18/1998	WIPO			Yes No
	AP8	WO 98/27815	07/02/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Feng, Y., <i>et al.</i> , "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor," <i>Science</i> 272:872-877, American Association for the Advancement of Science (May 1996)
	AS	8	Gao, J.-L., <i>et al.</i> , "Structure and Functional Expression of the Human Macrophage Inflammatory Protein 1a/RANTES Receptor," <i>J. Exp. Med.</i> 117:1421-1427, Rockefeller University Press (1993)
	AT	8	George, D.G., <i>et al.</i> , "Chapter 12. Current Methods in Sequence Comparison and Analysis," in <i>Macromolecular Sequencing and Synthesis. Selected Methods and Applications</i> , Schlesinger, D.H., ed., Alan R. Liss, Inc., New York, NY, pp. 127-149 (1988)

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	AL9	JP 10-179180	07/07/1998	Japan			Yes X No
	AM9	WO 98/30218	07/16/1998	WIPO			Yes No
	AN9	WO 98/31364	07/23/1998	WIPO			Yes No
	AO9	WO 98/34945	08/13/1998	WIPO			Yes No
	AP9	WO 98/38212	09/03/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	9	Gomez-Reino, J.J., <i>et al.</i> , "Association of Rheumatoid Arthritis with a Functional Chemokine Receptor, CCR5," <i>Arthritis Rheum.</i> 42:989-992, American College of Rheumatology (May 1999)
	AS	9	Greenwood, M.T., <i>et al.</i> , "Ligand Binding Pocket of the Human Somatostatin Receptor 5: Mutational Analysis of the Extracellular Domains," <i>Mol. Pharmacol.</i> 52:807-814, The American Society for Pharmacology and Experimental Therapeutics (November 1997)
	AT	9	Gura, T., "Chemokines Take Center Stage in Inflammatory Ills," <i>Science</i> 272:954-956, American Association for the Advancement of Science (May 1996)

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	AL10	WO 98/42354	10/01/1998	WIPO			Yes No
	AM10	WO 98/44158	10/08/1998	WIPO			Yes No
	AN10	WO 98/51705	11/19/1998	WIPO			Yes No
	AO10	WO 98/54317	12/03/1998	WIPO			Yes No
	AP10	WO 98/55873	12/10/1998	WIPO			Yes X No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>10</u>	Hla, T., and Maciag, T., "An abundant transcript induced in differentiating human endothelial cells encodes a polypeptide with structural similarities to G-protein-coupled receptors," <i>J. Biol. Chem.</i> 265:9308-9313, American Society for Biochemistry and Molecular Biology, Inc. (1990)
	AS	<u>10</u>	Horuk, R., "Molecular Properties of the Chemokine Receptor Family," <i>Trends in Pharmacol. Sci.</i> 15:159-165, Elsevier Science (May 1994)
	AT	<u>10</u>	Jobling, M.G. and Holmes, R.K., "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," <i>Mol. Microbiol.</i> 5:1755-1767, Blackwell Science (1991)

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	AL11	WO 98/56421	12/17/1998	WIPO			Yes No
	AM11	WO 98/58536	12/30/1998	WIPO			Yes No
	AN11	WO 98/58966	12/30/1998	WIPO			Yes No
	AO11	WO 99/01127	01/14/1999	WIPO			Yes No
	AP11	WO 99/04794	02/04/1999	WIPO			Yes No

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	AR	<u>11</u>	Larhammar, D., <i>et al.</i> , "The Receptor Revolution - Multiplicity of G-Protein-Coupled Receptors," <i>Drug Design and Discovery</i> 9:179-188, Harwood Academic Publishers GmbH (1993)
	AS	<u>11</u>	Lee, B., <i>et al.</i> , "Epitope Mapping of CCR5 Reveals Multiple Conformational States and Distinct but Overlapping Structures Involved in Chemokine and Coreceptor Function," <i>J. Biol. Chem.</i> 274:9617-9626, American Society for Biochemistry and Molecular Biology (April 1999)
	AT	<u>11</u>	Lee, N.H. and Kerlavage, A.R., "Molecular Biology of G-Protein-Coupled Receptors," <i>DN & P</i> 6:488-497, Prous Science (1993)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	✓	AL12	WO 99/06561	02/11/1999	WIPO		Yes No
	✓	AM12	WO 99/08703	02/25/1999	WIPO		Yes No
	✓	AN12	WO 99/09984	03/04/1999	WIPO		Yes No
	✓	AO12	WO 99/12416	03/18/1999	WIPO		Yes No
	✓	AP12	WO 99/13112	03/18/1999	WIPO		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

✓	AR	12	Leong, S.R., <i>et al.</i> , "Complete Mutagenesis of the Extracellular Domain of Interleukin-8 (IL-8) Type A Receptor Identifies Charged Residues Mediating IL-8 Binding and Signal Transduction," <i>J. Biol. Chem.</i> 269:19343-19348, American Society for Biochemistry and Molecular Biology (July 1994)
✓	AS	12	Lerner, R.A., "Tapping the immunological repertoire to produce antibodies of predetermined specificity," <i>Nature</i> 299:592-596, Macmillan Journals Ltd (1982)
✓	AT	12	Libert, F., <i>et al.</i> , "Selective amplification and cloning of four new members of the G protein-coupled receptor family," <i>Science</i> 244:569-572, American Association for the Advancement of Science (1989)

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		AL13	WO 99/14378	03/25/1999	WIPO		Yes No
		AM13	WO 99/17773	04/15/1999	WIPO		Yes No
		AN13	WO 99/23107	05/14/1999	WIPO		Yes No
		AO13	WO 99/23253	05/14/1999	WIPO		Yes No
		AP13	WO 99/24065	05/20/1999	WIPO		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	13	Mack, M., <i>et al.</i> , "Predominance of Mononuclear Cells Expressing the Chemokine Receptor CCR5 in Synovial Effusions of Patients with Different Forms of Arthritis," <i>Arthritis Rheum.</i> 42:981-988, American College of Rheumatology (May 1999)
	AS	13	Marshall, E., "HIV Experts vs. Sequencers in Patent Race," <i>Science</i> 275:1263, American Association for the Advancement of Science (February 1997)
	AT	13	Meyerhof, W., <i>et al.</i> , "Molecular cloning of a novel putative G-protein coupled receptor expressed during rat spermiogenesis," <i>FEBS Letters</i> 284:155-160, Elsevier Science B.V. (1991)

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	AL14	WO 99/24553	05/20/1999	WIPO			Yes No
	AM14	FR 2 771 423	05/28/1999	France			Yes X No
	AN14	WO 99/27122	06/03/1999	WIPO			Yes X No
	AO14	WO 99/27939	06/10/1999	WIPO			Yes No
	AP14	WO 99/28474	06/10/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	14	Mummid, S., <i>et al.</i> , "The Human CC Chemokine Receptor 5 (CCR5) Gene," <i>J. Biol. Chem.</i> 272:30662-30671, American Society for Biochemistry and Molecular Biology (December 1997)
	AS	14	Murdoch, C. and Finn, A., "Chemokine receptors and their role in inflammation and infectious diseases," <i>Blood</i> 95:3032-3043, The American Society of Hematology (May 2000)
	AT	14	Murphy, P.M., "The Molecular Biology of Leukocyte Chemoattractant Receptors," <i>Annu. Rev. Immunol.</i> 12:593-633, Annual Reviews, Inc. (1994)

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		AL15	WO 99/32100	07/01/1999	WIPO		Yes No
		AM15	WO 99/32138	07/01/1999	WIPO		Yes No
		AN15	WO 99/33989	07/08/1999	WIPO		Yes No
		AO15	WO 99/36518	07/22/1999	WIPO		Yes No
		AP15	WO 99/38514	08/05/1999	WIPO		Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	15	Neote, K., <i>et al.</i> , "Molecular Cloning, Functional Expression, and Signaling Characteristics of a C-C Chemokine Receptor," <i>Cell</i> 72:415-425, Cell Press (1993)
	AS	15	Nomura, H., <i>et al.</i> , "Molecular cloning of cDNAs encoding a LD78 receptor and putative leukocyte chemotactic peptide receptors," <i>Int. Immunol.</i> 5:1239-1249, Oxford University Press (1993)
	AT	15	Oliveira, L., <i>et al.</i> , "A common motif in G-protein-coupled seven transmembrane helix receptors," <i>J. Comput. Aided Mol. Des.</i> 7:649-658, Escom Science Publishers (1993)

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	AL16	WO 99/43711	09/02/1999	WIPO			Yes No
	AM16	JP 11-243960	09/14/1999	Japan			Yes X No
	AN16	WO 99/46372	09/16/1999	WIPO			Yes No
	AO16	WO 99/51751	10/14/1999	WIPO			Yes X No
	AP16	WO 99/53033	10/21/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>16</u>	Olson, W., <i>et al.</i> , "Differential Inhibition of Human Immunodeficiency Virus Type 1 Fusion, gp120 Binding, and CC-Chemokine Activity by Monoclonal Antibodies to CCR5," <i>J. Virol.</i> 73:4145-4155, American Society for Microbiology (May 1999)
	AS	<u>16</u>	Osborn, J.K., <i>et al.</i> , "Directed Selection of MIP-1 α Neutralizing CCR5 Antibodies from a Phage Display Human Antibody Library," <i>Nature Biotechnol.</i> 16:778-781, Nature Publishing Group (August 1998)
	AT	<u>16</u>	Probst, W.C., <i>et al.</i> , "Sequence Alignment of the G-Protein Coupled Receptor Superfamily," <i>DNA Cell Biol.</i> 11:1-20, Mary Ann Liebert, Inc. (1992)

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	AL17	JP 11-292795	10/26/1999	Japan			Yes X No
	AM17	WO 99/62535	12/09/1999	WIPO			Yes No
	AN17	WO 99/67429	12/29/1999	WIPO			Yes No
	AO17	WO 99/66944	12/29/1999	WIPO			Yes No
	AP17	WO 00/02045	01/13/2000	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	17	Promega, "3. Nucleic Acids: Primers and Linkers," in 1993/94 Catalog, Promega Corporation (1993)
	AS	17	Raport, C.J., <i>et al.</i> , "Molecular Cloning and Functional Characterization of a Novel Human CC Chemokine Receptor (CCR5) for RANTES, MIP-1 β , and MIP-1 α ," <i>J. Biol. Chem.</i> 271:17161-17166, American Society for Biochemistry and Molecular Biology (July 1996)
	AT	17	Ross, P.C., <i>et al.</i> , "RTA, a candidate G protein-coupled receptor: cloning, sequencing, and tissue distribution," <i>Proc. Natl. Acad. Sci. USA</i> 87:3052-3056, National Academy of Science (1990)

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	AL18	WO 00/05265	02/03/2000	WIPO			Yes No
	AM18	WO 00/06085	02/10/2000	WIPO			Yes No
	AN18	WO 00/06146	02/10/2000	WIPO			Yes No
	AO18	WO 00/06153	02/10/2000	WIPO			Yes No
	AP18	EP 0 979 655	02/16/2000	Europe			Yes X No

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	AR	18	Samson, M., <i>et al.</i> , "Molecular Cloning and Functional Expression of a New Human CC-Chemokine Receptor Gene," <i>Chem. Abstracts</i> 124:993, Abstract No. 258056e, The American Chemical Society (May 1996)
	AS	18	Samson, M., <i>et al.</i> , "Molecular Cloning and Functional Expression of a New Human CC-Chemokine Receptor Gene," <i>Biochemistry</i> 35:3362-3367, American Chemical Society (March 1996)
	AT	18	Schall, T.J., "Biology of the RANTES/SIS Cytokine Family," <i>Cytokine</i> 3:165-183, Academic Press, Inc. (1991)

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	AL19	WO 00/08043	02/17/2000	WIPO			Yes No
	AM19	WO 00/09525	02/24/2000	WIPO			Yes No
	AN19	WO 00/10965	03/02/2000	WIPO			Yes No
	AO19	WO 00/14220	03/16/2000	WIPO			Yes X No
	AP19	WO 00/15663	03/23/2000	WIPO			Yes No

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	AR	19	Skolnick, J. and Fetrow, J.S., "From genes to protein structure and function: novel applications of computational approaches in the genomic era," <i>TIBTECH</i> 18:34-39, Elsevier Science Ltd (January 2000)
	AS	19	Suzuki, N., <i>et al.</i> , "Selective accumulation of CCR5 ⁺ T lymphocytes into inflamed joints of rheumatoid arthritis," <i>Intl. Immunol.</i> 11:553-559, The Japanese Society for Immunology and Oxford University Press (April 1999)
	AT	19	Travis, J., "Multiple doors for HIV to enter cells," <i>Science News</i> 149:390, Science Service (June 1996)

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	AL20	RU 2126048	02/10/1999	Russian			Yes X No
	AM20	WO 00/15785	03/23/2000	WIPO			Yes X No
	AN20	WO 01/58916	08/16/2001	WIPO			Yes No
	AO20	WO 02/064612	8/22/2002	WIPO			Yes No
	AP20	WO 03/075944	09/18/2003	WIPO			Yes No

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	AR	<u>20</u>	Weiss, R.A. and P.R. Clapham, "Hot fusion of HIV," <i>Nature</i> 381:647-648, Macmillan Publishing Group (June 1996)
	AS	<u>20</u>	Wu, L., <i>et al.</i> , "Interaction of Chemokine Receptor CCR5 with its Ligands: Multiple Domains for HIV-1 gp 120 Binding and a Single Domain for Chemokine Binding," <i>J. Exp. Med.</i> 186:1373-138, The Rockefeller University Press (October 1997)
	AT	<u>20</u>	Yamagami, S., <i>et al.</i> , "cDNA Cloning and Functional Expression of a Human Monocyte Chemoattractant Protein 1 Receptor," <i>Biochem. Biophys. Res. Commun.</i> 202:1156-1162, Academic Press, Inc. (July 1994)

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	✓	AL21	WO 2004/020468	03/11/2004	WIPO		Yes No
		AM					Yes No
		AN					Yes No
		AO					Yes No
		AP					Yes No

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2	AR	21	Zang, Y.C.Q., <i>et al.</i> , "Aberrant T cell migration toward RANTES and MIP-1 α in patients with multiple sclerosis: Overexpression of chemokine receptor CCR5," <i>Brain</i> 123:1874-1882, Oxford University Press (September 2000)
	AS	21	"CCR-5 Antibodies-Human Chemokine Receptor Antibodies," Aves Labs, Inc., < http://www.aveslab.com/ccr5.html >, (visited August 2001)
	AT	21	"CCR-5 (CCR5) Chemokine Receptor antibodies available through Research Diagnostics Inc.," Research Diagnostics Inc., < http://www.researchd.com/cytokines/ccr5ab.htm >, (visited August 2001)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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2	AR	22	"Euroscreen Available Products: Mammalian recombinant cell lines," Euroscreen s.a. (1999), < http://www.euroscreen.be/products/cell_lines.html >, (visited August 2001)
1	AS	22	"Myocardial Infarction," in The Merck Manual of Diagnosis and Therapy, Seventeenth Edition, Centennial Edition, Section 16, Chapter 202, Beers, M.H. and Berkow, R., eds., Merck & Co., Inc. (1999) < http://www.merck.com/pubs/Manual/section16/chapter202/202d.htm > (visited August 2001)
1	AT	22	"Specification Sheet H-1001," Aves Labs, Inc., < http://www.aveslab.com/specs/h1001.html >, (visited August 2001)

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2	AR	<u>23</u>	Database EMBL Online, Accession No. AF031237, from Mummidi, S., <i>et al.</i> (first available January 1998)
	AS	<u>23</u>	Dialog File 351, Accession No. 1995-312725/199541, Derwent WPI English language abstract of EP 0 671 391 (Document AL2)
	AT	<u>23</u>	Dialog File 351, Accession No. 1994-265874/199433, Derwent WPI English language abstract of EP 0 612 723 (Document AM4)

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AR	24	Dialog File 351, Accession No. 11573252, Derwent WPI English language abstract of WO 97/41230 (Document AL5)
AS	24	Dialog File 351, Accession No. 12336308, Derwent WPI English language abstract of WO 98/55873 (Document AP10)
AT	24	Dialog File 351, Accession No. 12523594, Derwent WPI English language abstract of FR 2 771 423 (Document AM14)

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	AN						Yes No
	AO						Yes No
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2	AR	25	Dialog File 351, Accession No. 12797479, Derwent WPI English language abstract of JP 11-243960 (Document AM16)
1	AS	25	Dialog File 351, Accession No. 1999-620207/199953, Derwent WPI English language abstract of JP 11-292795 (Document AL17)
1	AT	25	Dialog File 351, Accession No. 2000-197082/200018, Derwent WPI English language abstract of EP 0 979 655 (Document AP18)

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1488.115000P/EKS/HCCAPPLICATION NO.
10/791,905FIRST NAMED INVENTOR
Li *et al.*FILING DATE
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1647**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>26</u>	Dialog File 351, Accession No. 13109249, Derwent WPI English language abstract of RU 2126048 (Document AL20)
	AS	<u>26</u>	Dialog File 351, Accession No. 13099553, Derwent WPI English language abstract for WO 00/15785 (Document AM20)
	AT	<u>26</u>	NCBI Entrez, Genbank Report, Accession No. M74240, Beckman, M.P., <i>et al.</i> (1991)

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	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>27</u>	NCBI Entrez, Genbank Report, Accession No. L10918, Gao, J.-L., <i>et al.</i> (1993)
	AS	<u>27</u>	NCBI Entrez, Genbank Report, Accession No. U03882, Charo, I.F., <i>et al.</i> (June 1994)
	AT	<u>27</u>	NCBI Entrez, Genbank Report, Accession No. D10925, Nomura, H., <i>et al.</i> (September 1994)

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	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	28	NCBI Entrez, Genbank Report, Accession No. L09230, Neote, K., <i>et al.</i> (December 1994)				
2	AS	28	NCBI Entrez, Genbank Report, Accession No. L24445, Prado, G.N., <i>et al.</i> (May 1994)				
2	AT	28	NCBI Entrez, Genbank Report, Accession No. U29677, Post, T.W., <i>et al.</i> (January 1996)				

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	29	NCBI Entrez, Genbank Report, Accession No. U28406, Gao, J.L., and Murphy, P.M. (February 1996)
2	AS	29	NCBI Entrez, Genbank Report, Accession No. D29984, Yamagami, S., <i>et al.</i> (August 1994)
2	AT	29	NCBI Entrez, Genbank Report, Accession No. U47036, Boring, L., <i>et al.</i> (March 1996)

EXAMINER	DATE CONSIDERED
<i>[Signature]</i>	11/14/08

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>30</u>	NCBI Entrez, Genbank Report, Accession No. U47035, Boring, L., <i>et al.</i> (March 1996)
	AS	<u>30</u>	NCBI Entrez, Genbank Report, Accession No. U28694, Combadiere, C., <i>et al.</i> (June 1995)
	AT	<u>30</u>	NCBI Entrez, Genbank Report, Accession No. U51717, Kurihara, T., and Bravo, R. (May 1996)

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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	31	NCBI Entrez, Genbank Report, Accession No. X94151, Meyer, A., <i>et al.</i> (July 1996)				
1	AS	31	NCBI Entrez, Genbank Report, Accession No. U54994, Raport, C.J., <i>et al.</i> (July 1996)				
	AT	31	NCBI Entrez, Genbank Report, Accession No. X99393, Samson, M., <i>et al.</i> (September 1996)				

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	32	NCBI Entrez, Genbank Report, Accession No. U56819, Heesen, M., <i>et al.</i> (September 1996)
	AS	32	NCBI Entrez, Genbank Report, Accession No. U49727, Ponath, P.D., <i>et al.</i> (August 1996)
	AT	32	NCBI Entrez, Genbank Report, Accession No. X91492, Samson, M., <i>et al.</i> (April 1996)

EXAMINER 	DATE CONSIDERED 11/19/08
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>33</u>	NCBI Entrez, Genbank Report, Accession No. U51241, Daugherty, B.L. (August 1996)				
	AS	<u>33</u>	NCBI Entrez, Genbank Report, Accession No. U57840, Combadiere, C., et al. (June 1996)				
	AT	<u>33</u>	NCBI Entrez, Genbank Report, Accession No. U68565, Kuziel, W.A., and Maeda, N. (December 1996)				

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	<u>34</u>	NCBI Entrez, Genbank Report, Accession No. U70988, Dunstan, C.A.N., <i>et al.</i> (October 1996)				
✓	AS	<u>34</u>	NCBI Entrez, GenBank Report, Accession No. AF019772, submitted by Doranz, B.J., <i>et al.</i> (September 1997)				
✓	AT	<u>34</u>	NCBI Entrez, GenBank ref file NP_000570.1 (chemokine receptor 5 [Homo sapiens]) BLAST homology search alignment				

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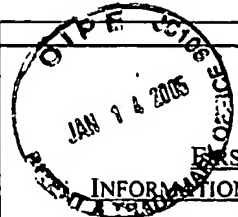
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

9 ✓	AR	35	European Search Report for European Patent Application No. EP01912713, European Patent Office, Netherlands, mailed on May 25, 2004				
8 ✓	AS	35	Co-pending U.S. Application No. 10/127,764, inventors Li <i>et al.</i> , filed April 23, 2002 (NOT PUBLISHED)				
	AT						

EXAMINER


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		APPLICANT(S) Li <i>et al.</i>		
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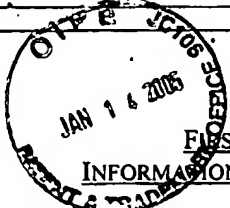
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR		
	AS		
	AT	35	Olson, W.C., <i>et al.</i> , "Differential Inhibition of Human Immunodeficiency Virus Type 1 Fusion, gp120 Binding, and CC-Chemokine Activity by Monoclonal Antibodies to CCR5," <i>J. Virol.</i> 73:4145-4155, American Society for Microbiology (May 1999)

EXAMINER	DATE CONSIDERED
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 FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.115000P/EKS/HCC	APPLICATION NO. 10/791,905
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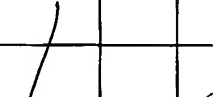
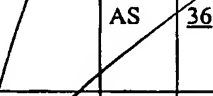
U.S. PATENT DOCUMENTS

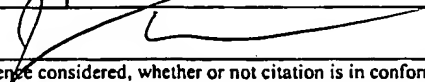
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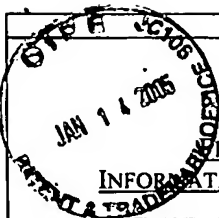
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	AN						Yes
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	AO						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	36	Osourn, J.K., <i>et al.</i> , "Directed selection of MIP-1 α neutralizing CCR5 antibodies from a phage display human antibody library," <i>Nat. Biotechnol.</i> 16:778-781, Nature Pub. Co (August 1998)
	AS	36	Supplementary Partial European Search Report for European Patent Application No. EP 02 71 8923, completed November 29, 2004
	AT	36	Database UniProt, Accession No. AAW90287, Berchtold, P., and Escher, R.F.A., September 7, 1999

EXAMINER 	DATE CONSIDERED 1/11/05
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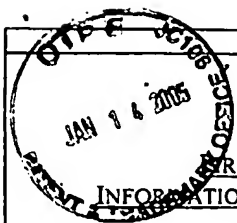
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	AR	<u>37</u>	Database UniProt, Accession No. AX355922, Devaux, B., <i>et al.</i> , February 6, 2002
	AS	<u>37</u>	Database UniProt, Accession No. P18135, Kipps, T.J., <i>et al.</i> , November 1, 1990
	AT	<u>37</u>	Database UniProt, Accession No. AAR38672, Marasco, W.A., <i>et al.</i> , November 1, 1993

EXAMINER

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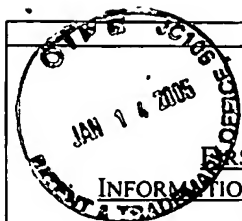
2	AR	38	Database EMBL, Accession No. Z75404, Tonnelle, C., <i>et al.</i> , April 30, 1997
9	AS	38	Database EMBL, Accession No. Z14196, Cuisinier, A.M., <i>et al.</i> , January 20, 1993
	AT	38	Database EMBL, Accession No. Z27170, Bensimon, C., <i>et al.</i> , November 12, 1993

EXAMINER

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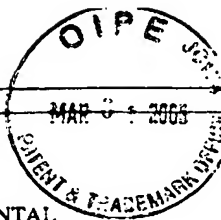
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2	AR	39	Database EMBL, Accession No. S66101, Bhat, N.M., <i>et al.</i> , December 6, 1993
1	AS	39	Database EMBL, Accession No. AJ388647, Capello, D., <i>et al.</i> , July 22, 1999
	AT	39	Database EMBL, Accession No. Z46310, Chapman, C.J., <i>et al.</i> , December 12, 1994

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	AC4	6,107,019	08/22/2000	Allaway et al.			06/13/1997
	AD4	6,344,545	02/05/2002	Allaway et al.			04/02/1997
	AE4	6,448,375	09/10/2002	Samson et al.			04/09/1997
	AF4	6,528,625	03/04/2003	Wu et al.			07/11/1997
	AG4	6,692,938	02/17/2004	Samson et al.			08/24/2001
	AH4	6,797,811	09/28/2004	Gray et al.			12/20/1996
	AI4	6,800,447	10/05/2004	Samson et al.			08/24/2001
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM21	WO 98/02151	01/22/1998	WIPO			Yes No
	AN21	WO 98/11218	03/19/1998	WIPO			Yes No
	AO21	WO 01/058915 A3	08/16/2001	WIPO			Yes No
	AP						Yes No

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	AR	40	Baba, M., et al., "A small-molecule, nonpeptide CCR5 antagonist with highly potent and selective anti-HIV activity," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 96:5698-5703, National Academy of Sciences (May 1999)
	AS	40	BD Pharmingen™ Technical Data Sheet, "R-Phycoerythrin (R-PE)-Conjugated Mouse Anti-human Monoclonal Antibody," Revision 002, BD Biosciences Pharmingen (August 2004)
	AT	40	Björmdal, A., et al., "Coreceptor usage of primary human immunodeficiency virus type 1 isolates varies according to biological phenotype," <i>J. Virol.</i> 71(10):7478-7487, American Society for Microbiology (1997)

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	AR	41	Blanpain, C., <i>et al.</i> , "Multiple charged and aromatic residues in CCR5 amino-terminal domain are involved in high affinity binding of both chemokines and HIV-1 Env protein," <i>J. Biol. Chem.</i> 274(49):34719-34727, American Society for Biochemistry and Molecular Biology (December 1999)
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2	AR	42	Chackerian, B., <i>et al.</i> , "Induction of autoantibodies to mouse CCR5 with recombinant papillomavirus particles," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 96:2373-2378, National Academy of Sciences (1999)
1	AS	42	Davies, B. and Morris, T., "Physiological parameters in laboratory animals and humans," <i>Pharmaceut. Res.</i> 10:1093-1095, Plenum Publishing Corp. (1993)
1	AT	42	Dejucq, N., <i>et al.</i> , "Expanded tropism of primary human immunodeficiency virus type 1 R5 strains to CD4+ T-cell lines determined by the capacity to exploit low concentrations of CCR5," <i>J. Virol.</i> 73(9):7842-7847, American Society for Microbiology (1999)

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

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	AR	43	Doranz, B.J., <i>et al.</i> , "A small-molecule inhibitor directed against the chemokine receptor CXCR4 prevents its use as an HIV-1 coreceptor," <i>J. Exp. Med.</i> 186(8):1395-1400, The Rockefeller University Press (October 1997)
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1	AT	<u>44</u>	Fleuridor, R., <i>et al.</i> , "CD1d-restricted natural killer T cells are potent targets for human immunodeficiency virus infection," <i>Immunology</i> 108(1):3-9, Blackwell Publishing Ltd. (January 2003)

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9	AR	45	Genoud, S., <i>et al.</i> , "CCR5-Mediated human Immunodeficiency virus entry depends on an amino-terminal gp120-binding site and on the conformational integrity of all four extracellular domains," <i>J. Virol.</i> 73(2):1645-1648, American Society for Microbiology (February 1999)				
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2	AR	46	Hong, Y-L., <i>et al.</i> , "New reporter cell lines to study macrophage-tropic HIV envelope protein- mediated cell-cell fusion," <i>AIDS Res. Hum. Retroviruses</i> 15(18):1667-1672, Mary Ann Liebert, Inc. (1999)				
1	AS	46	Howell, D.N., <i>et al.</i> , "Natural killing target antigens as inducers of interferon: studies with an immunoselected, natural killing-resistant human T-lymphoblastoid cell line," <i>J. Immunol.</i> 134:971-976, The American Association of Immunologists (1985)				
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2	AR	47	Kilby, J.M. and Eron, J.J. "Novel therapies based on mechanisms of HIV-1 cell entry," <i>N. Engl. J. Med.</i> 384:2228-2238, Massachusetts Medical Society (May 2003)
2	AS	47	Königs, C., <i>et al.</i> , "Monoclonal antibody screening of a phage-displayed random peptide library reveals mimotopes of chemokine receptor CCR5: implications for the tertiary structure of the receptor and for an N-terminal binding site for HIV-1 gp120," <i>Eur. J. Immunol.</i> 30:1162-1171, Wiley-VCH Verlag GmbH (April 2000)
2	AT	47	Kottlitz, S., <i>et al.</i> , "Expression of chemokine and inhibitory receptors on natural killer cells: effect of immune activation and HIV viremia," <i>J. Infect. Dis.</i> 189:1193-1198, National Institute of Allergy and Infectious Diseases (April 2004)

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	AR	<u>48</u>	Lachgar, A., <i>et al.</i> , "Binding of HIV-1 to RBCs involves the Duffy antigen receptors for chemokines (DARC)," <i>Biomed. & Pharmacother.</i> 52:436-439, Elsevier (1998)
	AS	<u>48</u>	Lalezari, J.P., <i>et al.</i> , "Enfuvirtide, an HIV-1 fusion inhibitor, for drug-resistant HIV infection in North and South America," <i>N. Engl. J. Med.</i> 348(22):2175-2185, Massachusetts Medical Society (May 2003); correction attached, <i>N. Engl. J. Med.</i> 349(11):1100 (September 2003)
	AT	<u>48</u>	Lin, Y-L., <i>et al.</i> , "Cell surface CCR5 density determines the postentry efficiency of R5 HIV-1 infection. <i>Proc. Natl. Acad. Sci. U.S.A.</i> 99(24):15590-15595, The National Academy of Sciences (November 2002)

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	AR	<u>49</u>	Lin, P-F., <i>et al.</i> , "A small molecule HIV-1 inhibitor that targets the HIV-1 envelope and inhibits CD4 receptor binding," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 100(19):11013-11018, The National Academy of Sciences (September 2003)
	AS	<u>49</u>	Liu, R., <i>et al.</i> , "Homozygous defect in HIV-1 coreceptor accounts for resistance of some multiply-exposed individuals to HIV-1 infection," <i>Cell</i> 86:367-377, Cell Press (August 1996)
	AT	<u>49</u>	Lopalco, L., <i>et al.</i> , "CCR5-Reactive antibodies in seronegative partners of HIV-seropositive individuals down-modulate surface CCR5 in vivo and neutralize the infectivity of R5 strains of HIV-1 in vitro," <i>J. Immunol.</i> 164:3426-3433, The American Association of Immunologists (March 2000)

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2	AS	50	Lyerty, H.K., <i>et al.</i> , "Anti-gp 120 antibodies from HIV seropositive individuals mediate broadly reactive anti-HIV ADCC," <i>AIDS Res. Hum. Retroviruses</i> 3:409-422, Mary Ann Liebert, Inc. (1987)				
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✓	AT	51	Moosmann, P. and Rusconi, S., "Alpha complementation of LacZ in mammalian cells," <i>Nucleic Acids Res.</i> 24(6):1171-1172, Oxford University Press (March 1996)

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AS	52	Münch, J., <i>et al.</i> , "Hemofiltrate CC chemokine 1[9-74] causes effective internalization of CCR5 and is a potent inhibitor of R5-tropic human immunodeficiency virus type 1 strains in primary T cells and macrophages," <i>Antimicrob. Agents Chemother.</i> 46:982-990, The American Society for Microbiology (April 2002)
AT	52	Nansen, A., <i>et al.</i> , "The role of CC chemokine receptor 5 in antiviral immunity," <i>Blood</i> 99(4):1237-1245, The American Society of Hematology (February 2002)

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	AP						Yes No

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AR	53	Nieto, M., <i>et al.</i> , "Roles of chemokines and receptor polarization in NK-target cell interactions," <i>J. Immunol.</i> 161:3330-3339, The American Association of Immunologists (1998)
AS	53	Perera, L.P., <i>et al.</i> , "IL-15 induces the expression of chemokines and their receptors in T lymphocytes," <i>J. Immunol.</i> 162:2606-2612, The American Association of Immunologists (1999)
AT	53	Pozniak, A.L., <i>et al.</i> , "Effect of short-term monotherapy with UK-427,857 on viral load in HIV-infected patients," <i>Program and abstracts from the 43rd Annual Interscience Conference on Antimicrobial Agents and Chemotherapy</i> (43rd ICAAC), pp.14-17, Coe-Truman Technologies, Inc. (September 2003)

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FORM PTO-1449

**SECOND SUPPLEMENTAL
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1488.115000P/EKS/HCCAPPLICATION No.
10/791,905APPLICANT(S)
Li *et al.*FILING DATE
March 4, 2004ART UNIT
1647**U.S. PATENT DOCUMENTS**

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

9	AR	<u>54</u>	Rabut, G.E.E., <i>et al.</i> , "Alanine substitutions of polar and nonpolar residues in the amino-terminal domain of CCR5 differently impair entry of macrophage- and dualtropic isolates of human immunodeficiency virus type 1," <i>J. Virol.</i> 72(4):3464-3468, American Society for Microbiology (1998)				
7	AS	<u>54</u>	Reeves, J.D., <i>et al.</i> , "Sensitivity of HIV-1 to entry inhibitors correlates with envelope/coreceptor affinity, receptor density, and fusion kinetics," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 99(25):16249-16254, The National Academy of Sciences (December 2002)				
	AT	<u>54</u>	Reynes, J., <i>et al.</i> , "CD4+ T cell surface CCR5 density as a determining factor of virus load in persons infected with human immunodeficiency virus type 1," <i>J. Infect. Dis.</i> 181:927-932, The Infectious Diseases Society of America (March 2000)				

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2	AR	55	Richman, D.D., <i>et al.</i> , "Rapid evolution of the neutralizing antibody response to HIV type 1 infection," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 100(7):4144-4149, The National Academy of Sciences (April 2003)				
2	AS	55	Roederer, M., <i>et al.</i> , "HIV does not replicate in naive CD4 T cells stimulated with CD3/CD28," <i>J. Clin. Invest.</i> 99(7):1555-1564, The American Society for Clinical Investigation, Inc. (1997)				
2	AT	55	Rottman, J.B., <i>et al.</i> , "Cellular localization of the chemokine receptor CCR5: correlation to cellular targets of HIV-1 infection," <i>Amer. J. Path.</i> 151(5):1341-1351, American Society for Investigative Pathology (1997)				

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	AO						Yes No
	AP						Yes No

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✓	AR	56	Rucker, J., <i>et al.</i> , "Regions in β -chemokine receptors CCR5 and CCR2b that determine HIV-1 cofactor specificity," <i>Cell</i> 87:437-446, Cell Press (November 1996)
✓	AS	56	Samson, M., <i>et al.</i> , "The second extracellular loop of CCR5 is the major determinant of ligand specificity," <i>J. Biol. Chem.</i> 272(40):24934-24941, American Society for Biochemistry and Molecular Biology, Inc. (1997)
✓	AT	56	Samson, M., <i>et al.</i> , "Resistance to HIV-1 infection in Caucasian individuals bearing mutant alleles of the CCR-5 chemokine receptor gene," <i>Nature</i> 382(22):722-725, Nature Publishing Group (August 1996)

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	AR	<u>57</u>	Schecter, A.D., <i>et al.</i> , "Human vascular smooth muscle cells possess functional CCR5," <i>J. Biol. Chem.</i> , 275(8):5466-5471, American Society for Biochemistry and Molecular Biology, Inc. (October 2000)
	AS	<u>57</u>	Siciliano, S.J., <i>et al.</i> , "A critical site in the core of the CCR5 chemokine receptor required for binding and infectivity of human immunodeficiency virus type 1," <i>J. Biol. Chem.</i> 274(4):1905-1913, American Society for Biochemistry and Molecular Biology, Inc. (1999)
	AT	<u>57</u>	Spina, C.A., <i>et al.</i> , "Preferential replication of HIV-1 in the CD45RO memory cell subset of primary CD4 lymphocytes in vitro," <i>J. Clin. Invest.</i> 99(7):1774-1785, The American Society for Clinical Investigation, Inc. (1997)

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	AR	<u>58</u>	Spira, S., <i>et al.</i> , "Impact of clade diversity on HIV-1 virulence, antiretroviral drug sensitivity and drug resistance," <i>J. Antimicrob. Chemother.</i> 51:229-240, The British Society for Antimicrobial Chemotherapy (January 2003)				
	AS	<u>58</u>	Starr-Spires, L.D. and Collman, R.G. "HIV-1 entry and entry inhibitors as therapeutic agents," <i>Clin. Lab. Med.</i> 22:681-701, Elsevier Science (USA) (September 2002)				
	AT	<u>58</u>	Steinberger, P., <i>et al.</i> , "Functional deletion of the CCR5 receptor by intracellular immunization produces cells that are refractory to CCR5-dependent HIV-1 infection and cell fusion," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 97(2):805-810, The National Academy of Sciences (January 2000)				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>59</u>	Strizki, J.M., <i>et al.</i> , "SCH-C (SCH 351125), an orally bioavailable, small molecule antagonist of the chemokine receptor CCR5, is a potent inhibitor of HIV-1 infection <i>in vitro</i> and <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 98(22):12718-12723, The National Academy of Sciences (October 2001)
	AS	<u>59</u>	Thormeyer, D., <i>et al.</i> , "Characterization of lacZ complementation deletions using membrane receptor dimerization," <i>BioTechniques</i> 34:346-355, Eaton Publishing (February 2003)
	AT	<u>59</u>	Trkola, A., <i>et al.</i> , "HIV-1 escape from a small molecule, CCR5-specific entry inhibitor does not involve CXCR4 use," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 99(1):395-400, The National Academy of Sciences (January 2002)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	60	Trkola, A., <i>et al.</i> , "A cell line-based neutralization assay for primary human immunodeficiency virus type 1 isolates that use either the CCR5 or the CXCR4 coreceptor," <i>J. Virol.</i> 73(11):8966-8974, American Society for Microbiology (November 1999)
1	AS	60	Trkola, A., <i>et al.</i> , "Potent, broad-spectrum inhibition of human immunodeficiency virus type 1 by the CCR5 monoclonal antibody PRO 140," <i>J. Virol.</i> 75(2):579-588, American Society for Microbiology (January 2001)
1	AT	60	Tuttle, D.L., <i>et al.</i> , "Expression of CCR5 increases during monocyte differentiation and directly mediates macrophage susceptibility to infection by human immunodeficiency virus type 1," <i>J. Virol.</i> 72(6): 4962-4969, American Society for Microbiology (1998)

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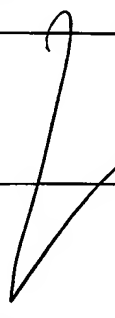

**SECOND SUPPLEMENTAL
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>61</u>	Unutmaz, D. and Littman, D.R. "Expression pattern of HIV-1 coreceptors on T cells: Implications for viral transmission and lymphocyte homing," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 94:1615-1618, The National Academy of Sciences (1997)
	AS	<u>61</u>	Van Rij, R.P., <i>et al.</i> , "Differential coreceptor expression allows for independent evolution of non-syncytium-inducing and syncytium-inducing HIV-1," <i>J. Clin. Invest.</i> 106(8):1039-1052, The American Society for Clinical Investigation, Inc. (October 2000)
	AT	<u>61</u>	Wahl, S.M., <i>et al.</i> , "Permissive factors for HIV-1 infection of macrophages," <i>J. Leukoc. Biol.</i> 68(3):303-310, The Society of Leukocyte Biology (September 2000)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>62</u>	Wahl, S.M., <i>et al.</i> , "Viral and host cofactors facilitate HIV-1 replication in macrophages," <i>J. Leukoc. Biol.</i> 74(5):726-735, The Society of Leukocyte Biology (November 2003)
	AS	<u>62</u>	Wang, Z., <i>et al.</i> , "CCR5 HIV-1 coreceptor activity. Role of cooperativity between residues in N-terminal extracellular and intracellular domains," <i>J. Biol. Chem.</i> 274(40):28413-28419, American Society for Biochemistry and Molecular Biology, Inc. (1999)
	AT	<u>62</u>	Weinhold, K.J., <i>et al.</i> , "Measurement of direct and indirect forms of anti-HIV-1 ADCC: Implications for other retroviral disease," <i>Dev. Biol. Standard</i> 72:343-348, 21 st Congress of the IABS on Progress in Animal Retroviruses, S. Karger (1990)

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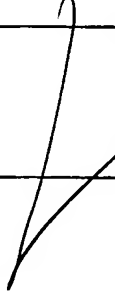

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	AM						Yes No
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	AP						Yes No

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	AR	63	Welply, J.K., <i>et al.</i> , "β-Galactosidase α-complementation," <i>J. Biol. Chem.</i> 256(13):6804-6810, American Society for Biochemistry and Molecular Biology, Inc. (1981)
	AS	63	Woods, T.C., <i>et al.</i> , "Loss of inducible virus in CD45RA naive cells after human immunodeficiency virus-1 entry accounts for preferential viral replication in CD45RO memory cells," <i>Blood</i> 89(5):1635-1641, American Society of Hematology (1997)
	AT	63	Wu, L., <i>et al.</i> , "CCR5 levels and expression pattern correlate with infectability by macrophage-tropic HIV-1, <i>in vitro</i> ," <i>J. Exp. Med.</i> 185(9):1681-1691, The Rockefeller University Press (May 1997)

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	AP						Yes No

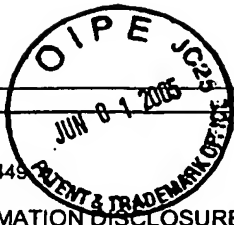
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	64	Co-pending U.S. Application No. 10/994,679, inventors Roschke, V. <i>et al.</i> , filed November 23, 2004 (NOT PUBLISHED)				

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FIRST NAMED INVENTOR
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	AS	64	Database UniProt, Accession No. P01608, Hilschmann, N. (first available 1986)
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FORM PTO-1449 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.115000P/EKS/HCC	APPLICATION NO. 10/791,905
	FIRST NAMED INVENTOR Li <i>et al.</i>	
	FILING DATE March 4, 2004	ART UNIT 1647

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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AR	65	Database UniProt, Accession No. P01607, Palm, W. and Hilschmann, N. (first available 1986)
AS	65	Database UniProt, Accession No. P01593, Titani, K., <i>et al.</i> (first available 1986)
AT	65	Database UniProt, Accession No. P80362, Huang, D.-B., <i>et al.</i> (first available November 1995)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	66	Database EMBL, Accession No. Z31395, Hawkins, R.E., <i>et al.</i> (first available April 1994)
1	AS	66	Database EMBL, Accession No. Z34909, David, D. (first available March 1995)
	AT	66	Database EMBL, Accession No. AB021535, Hakoda, M. (first available January 1999)

EXAMINER

DATE CONSIDERED

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FORM PTO-1449

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 1488.115000P/EKS/HCC
 FIRST NAMED INVENTOR
 Li *et al.*

 APPLICATION NO.
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**THIRD SUPPLEMENTAL INFORMATION DISCLOSURE
 STATEMENT**

 FILING DATE
 March 4, 2004



 ART UNIT
 1647
U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>67</u>	Database EMBL, Accession No. U80090, Glas, A.M., <i>et al.</i> (first available January 1997)
	AS	<u>67</u>	Database EMBL, Accession No. AY043104, Ghiotto, F., <i>et al.</i> (first available January 2002)
	AT		

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